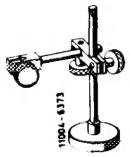
# Adjust wheel bearing end play on front axle

All models

**Wheel bearing end play**

| | |
|---|---|
| Adjusting value | 0.01–0.02 |

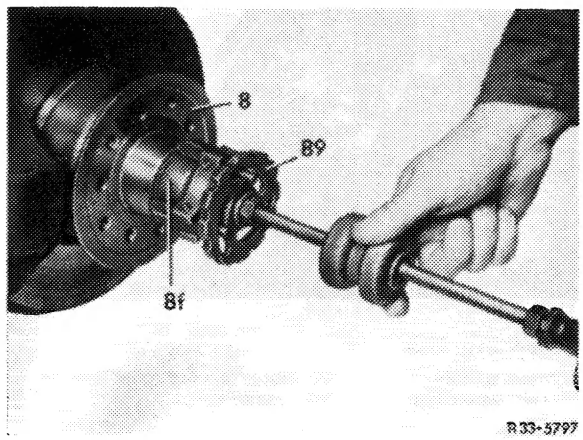
**Special tools**

| | | |
|---|---|---|
| Tool for removing and replacing hub-caps |  | 116 589 22 33 00 |
| Holder for dial gauge to adjust wheel bearing end play |  | 116 589 12 21 00 |

**Conventional tool**

| | |
|---|---|
| Dial gauge A 1 DIN 878 | e. g. made by Mahr, D-7300 Esslingen, no. 810 |

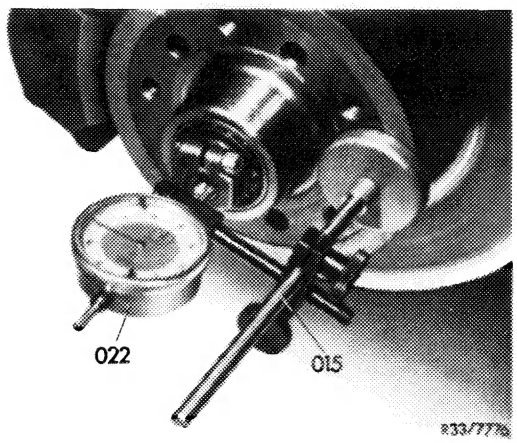
- Remove front wheel.
- Press brake shoes away from brake disc.
- Remove hub-cap with special tool.
- Remove contact spring for radio interference suppressor from wheel spindle.

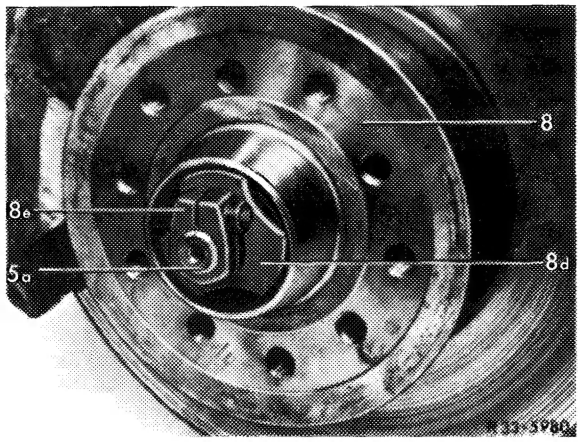



- Attach measuring instrument and set dial gauge to approx. 2 mm pretension.

**Note:** When readjusting wheel bearing play prior to attaching tester, tighten clamping nut while constantly rotating hub until turning requires considerable effort. Then release clamping nut again for approx. 1/3 turn and release tension by applying a blow against wheel spindle.

- Firmly push and pull the flange on the front wheel hub several times and read off wheel bearing play.
- Adjust to correct bearing play using locking nut. After every adjustment tighten hexagonal socket screw of locking nut and spin the hub several times.

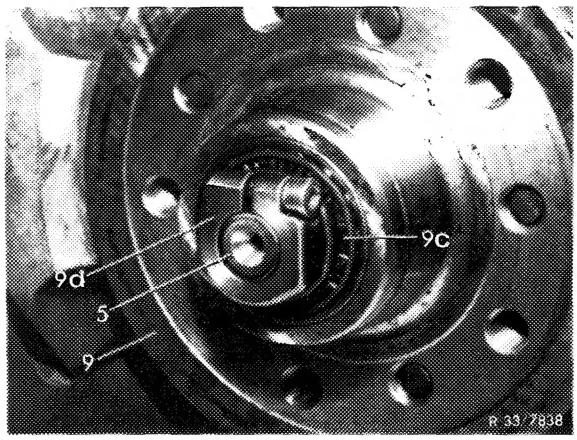





Models 107, 114, 115

8 Front wheel hub
8d Disc
8e Locking nut

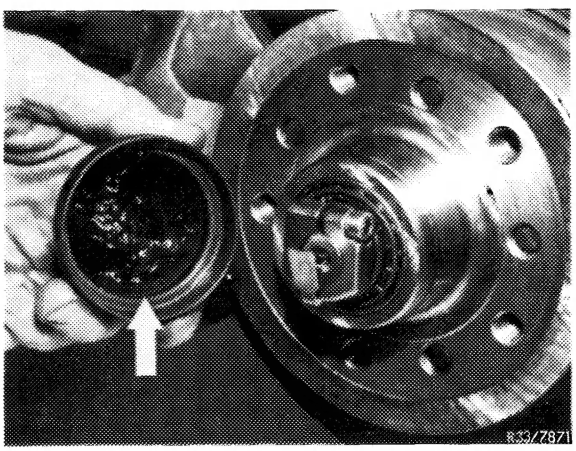
- On models 107, 114 and 115 an additional check can be made by turning the disc (8d) between the inner race of the outer tapered roller bearing and the locking nut. **The disc should just turn when pushed with the finger.**




Models 116, 123

5 Wheel spindle
9 Front wheel hub
9c Outer tapered roller bearing
9d Clamping nut

**Note:** On models 116 and 123 no additional checkup is possible, since there is no disc.



- Check hexagonal socket screw of locking nut for firm seat.
- Insert contact spring for radio interference suppression.
- Fill hub-cap with grease (up to flanged edge) (refer to job no. 388).
- Re-fit hub-cap using special tool (89).
- Mount front wheel.